

Abstract

Method and device for allocating channels in a communications system with CDMA subscriber separation

In the method according to the invention for allocating channels, CDMA codes form the channels for links. The CDMA codes are mapped by means of sequences of symbols in a tree structure and can be derived from one another. In accordance with different allocation strategies, the position in the sequence of symbols at which a difference from an already occupied node occurs is determined for the nodes which are still available, starting in each case with the root of the tree structure. A sum of the positions relating to the occupied nodes is determined and the channel with the CDMA code which corresponds to the node with a predefinable sum - the smallest or greatest sum - is allocated. As a result, it is possible to administer links both with a fixed and with a variable data rate in W-CDMA mobile radio systems without expenditure on adapting the allocation of the channels.

Fig. 3

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